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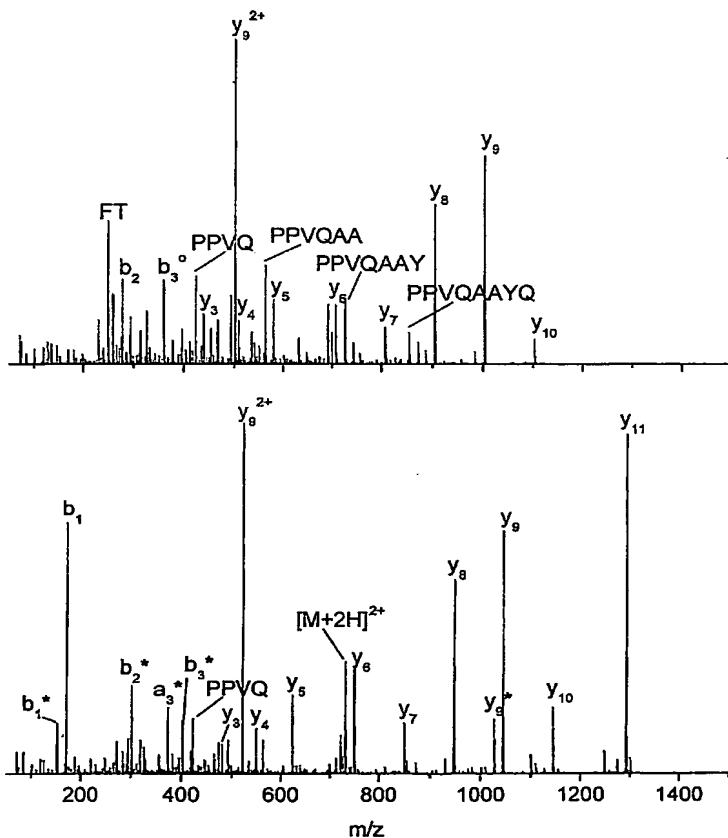
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(54) Title: PEPTIDE DERIVATIZATION FOR ENHANCING PROTEIN IDENTIFICATION BY MASS SPECTROMETRY



(57) Abstract: One aspect of the present inven-
tion is directed to a dual labeling strategy that en-
hances the mass spectrometry analysis of peptides,
as demonstrated in Figure 2. In one embodiment
a de novo sequencing method is provided that uti-
lizes both guanidination of lysine residues in con-
junction with amidination of the N-termini of pep-
tides to be analyzed by mass spectrometry. This
approach facilitates identification of N- and C-ter-
minal fragment ions.



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